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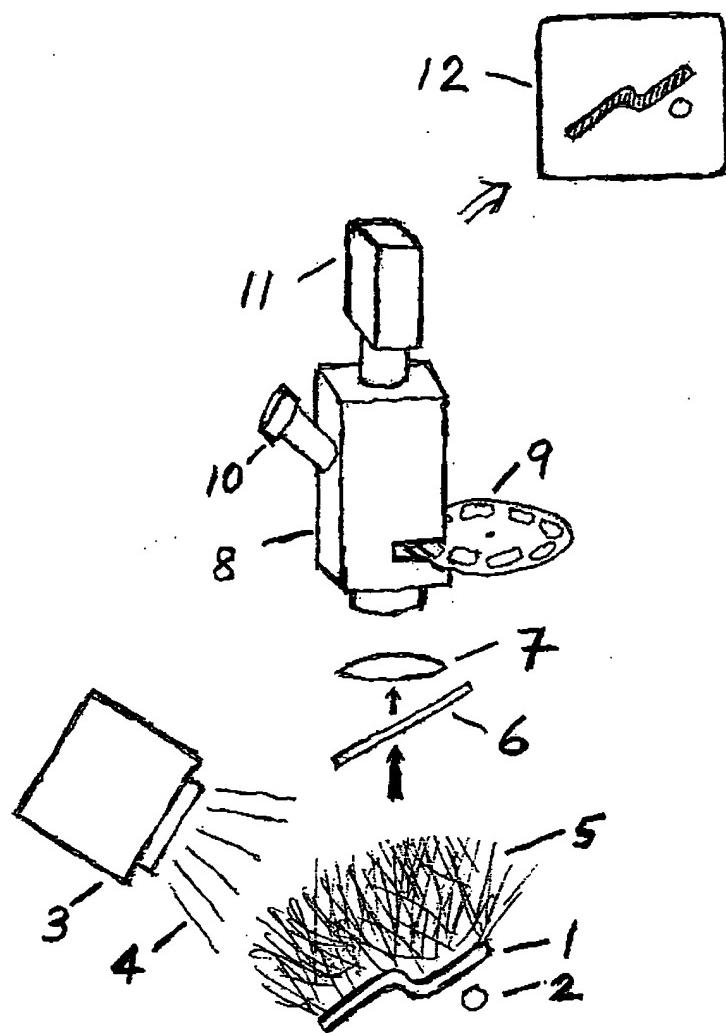
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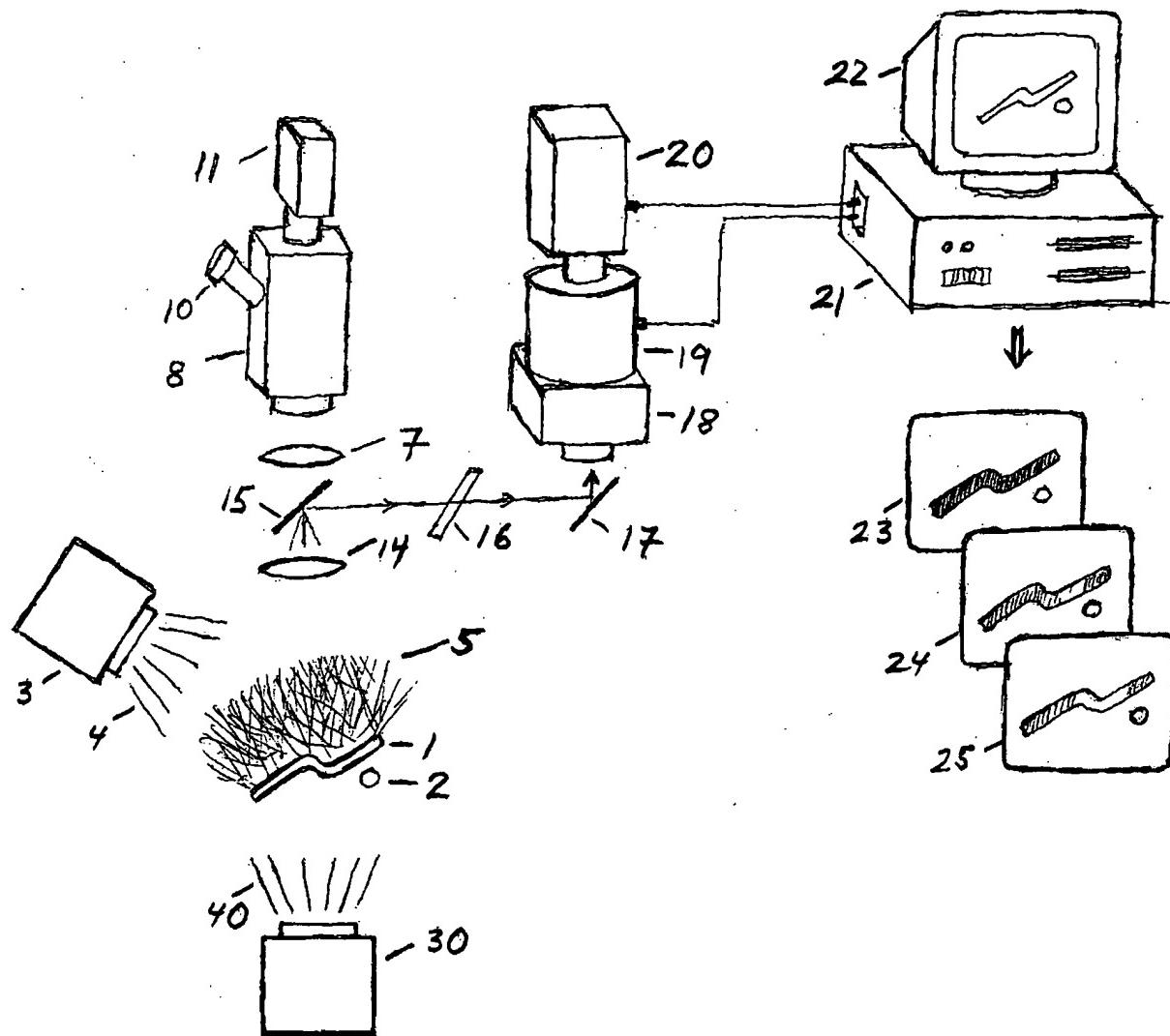
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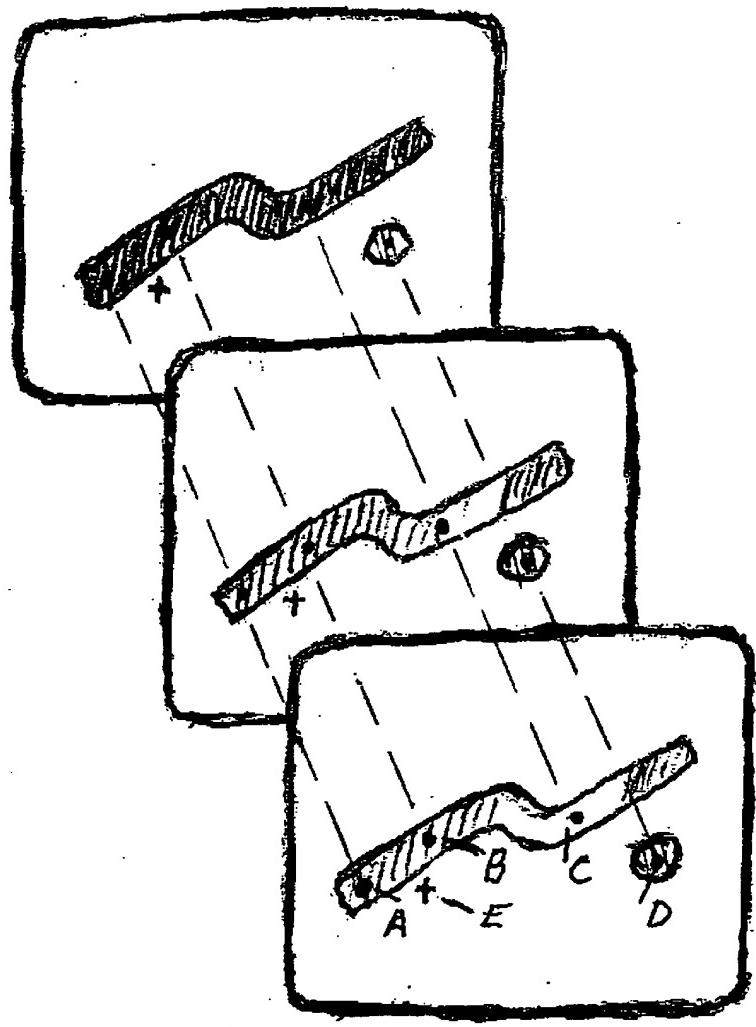


**Figure 1**

**(Prior Art)**



**Figure 2**



**Figure 3**

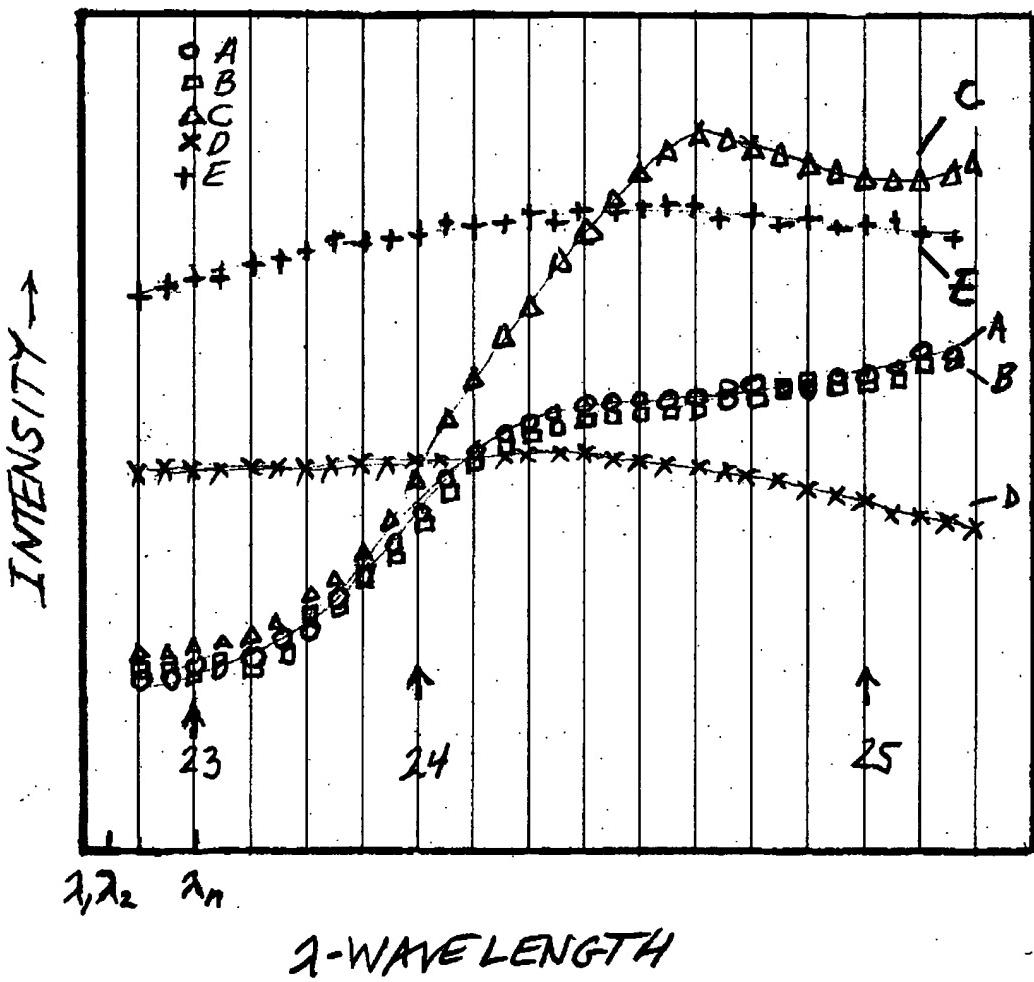
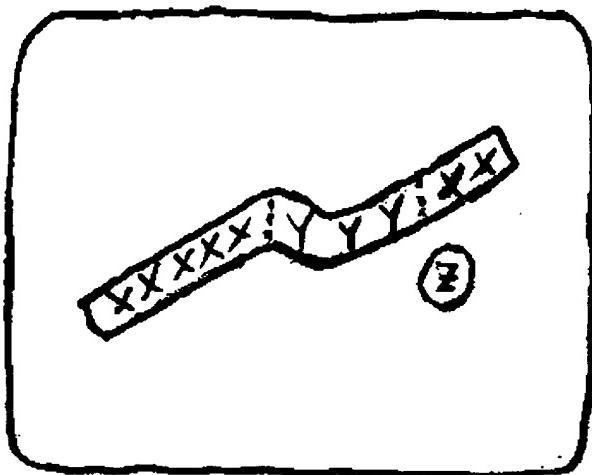


Figure 4

5A:



5B:

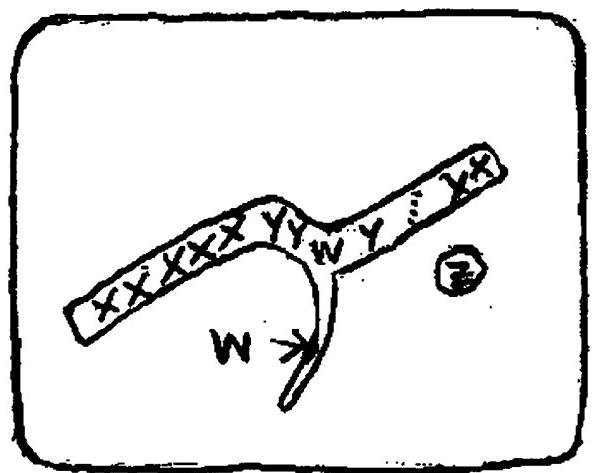
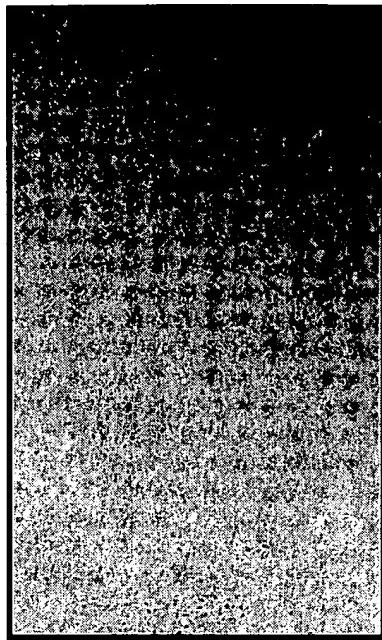
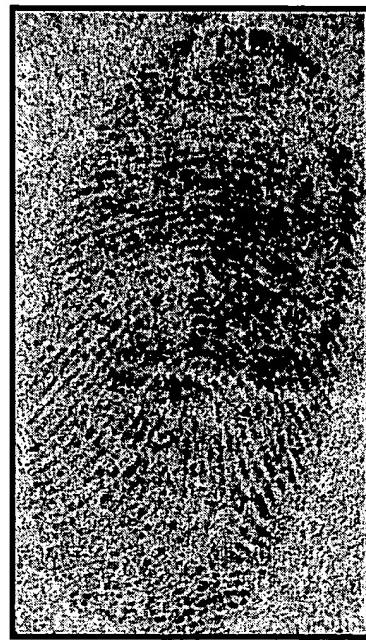


Figure 5

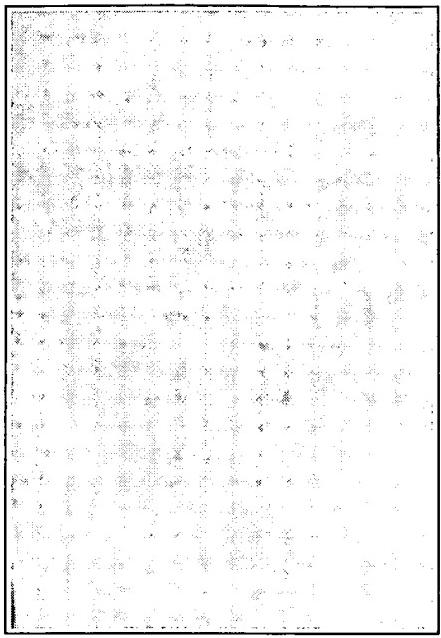


**A**

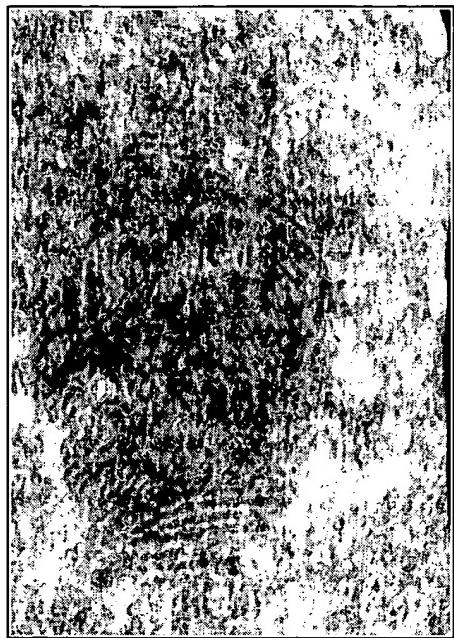


**B**

**Figure 6**

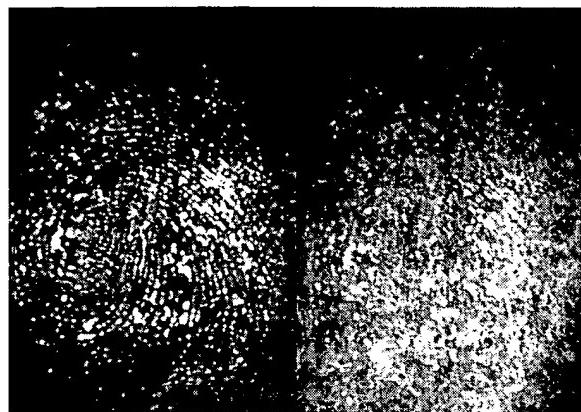


**A**

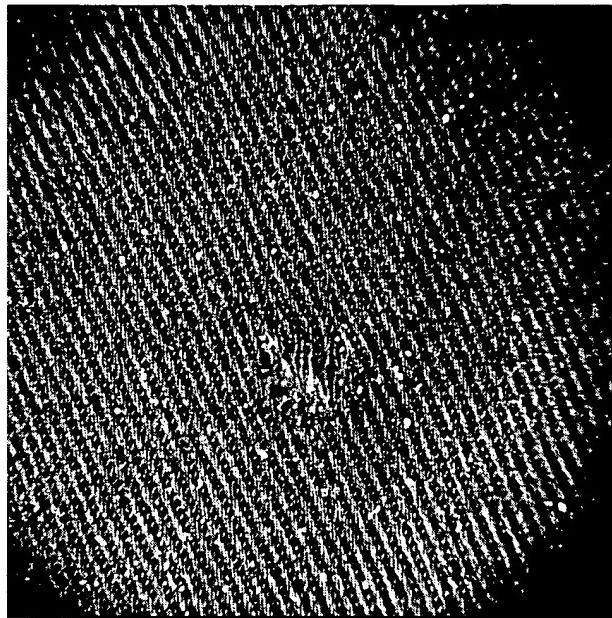


**B**

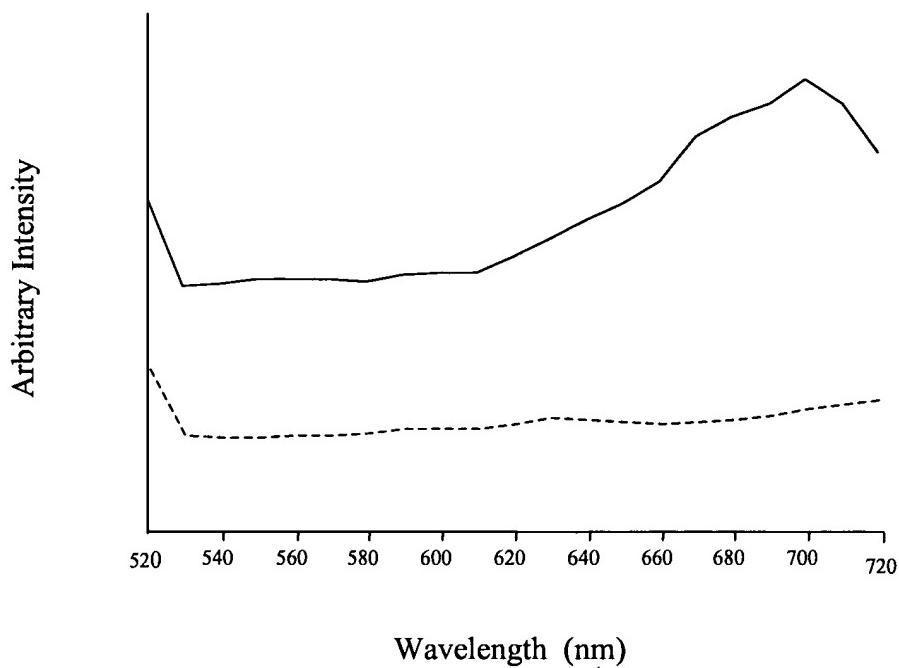
**Figure 7**



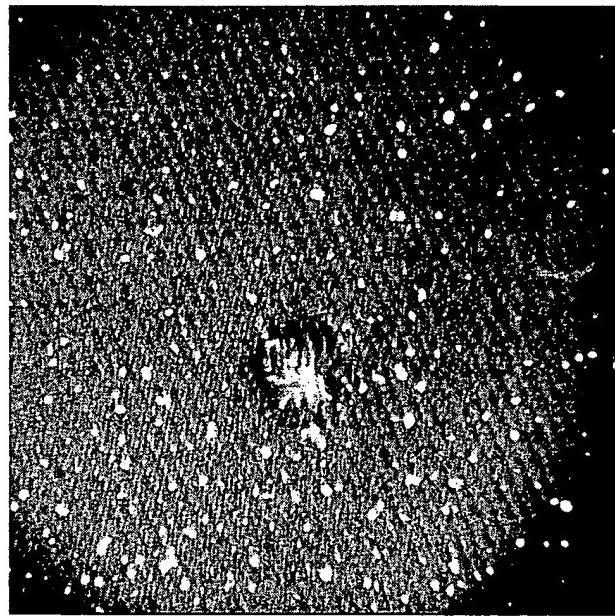
**Figure 8**



**Figure 9**

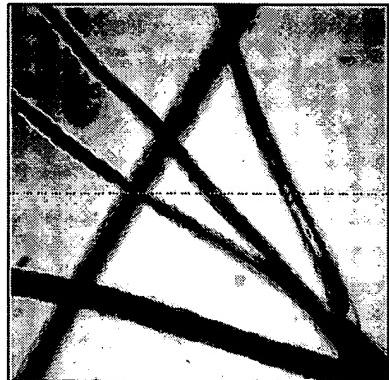


**Figure 10**



**Figure 11**

**A**



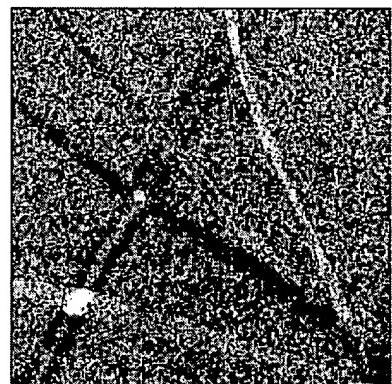
**B**



**C**

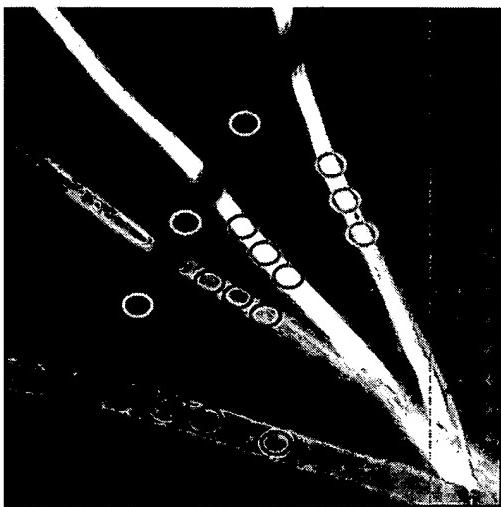


**D**

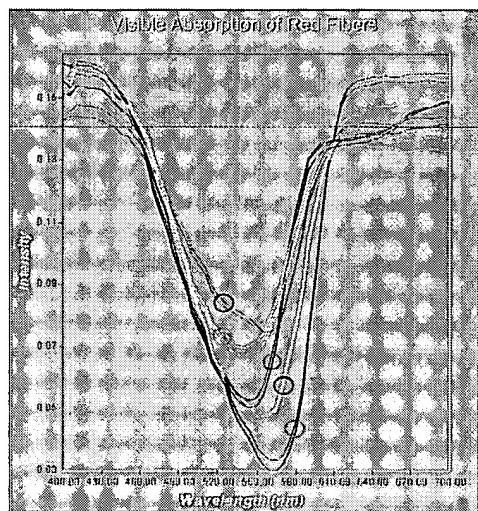


**Figure 12**

**A**

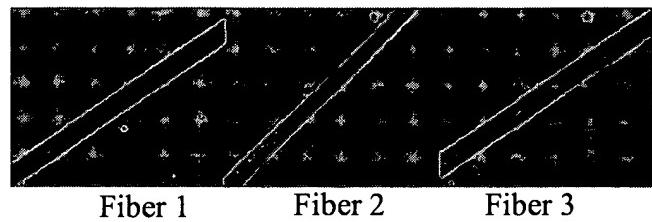


**B**



**Figure 13**

**A**

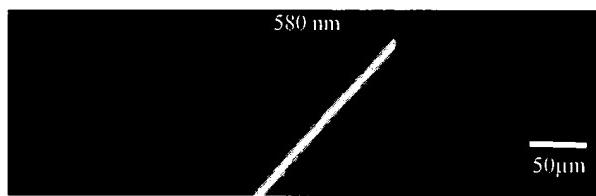


Fiber 1

Fiber 2

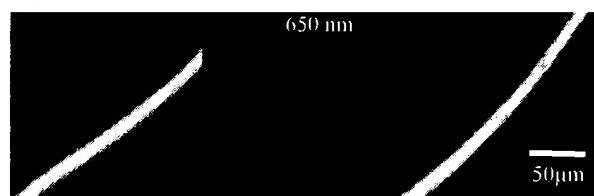
Fiber 3

**B**



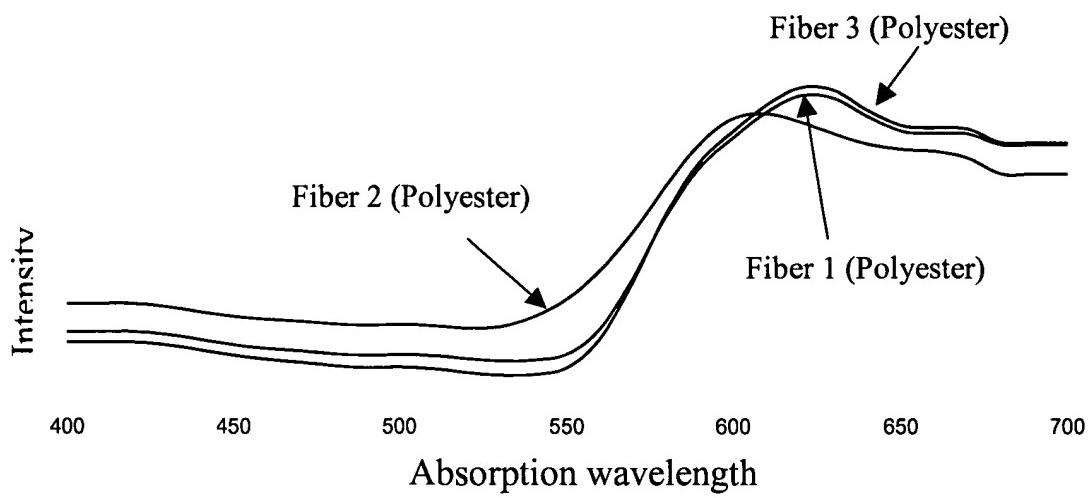
580 nm

**C**

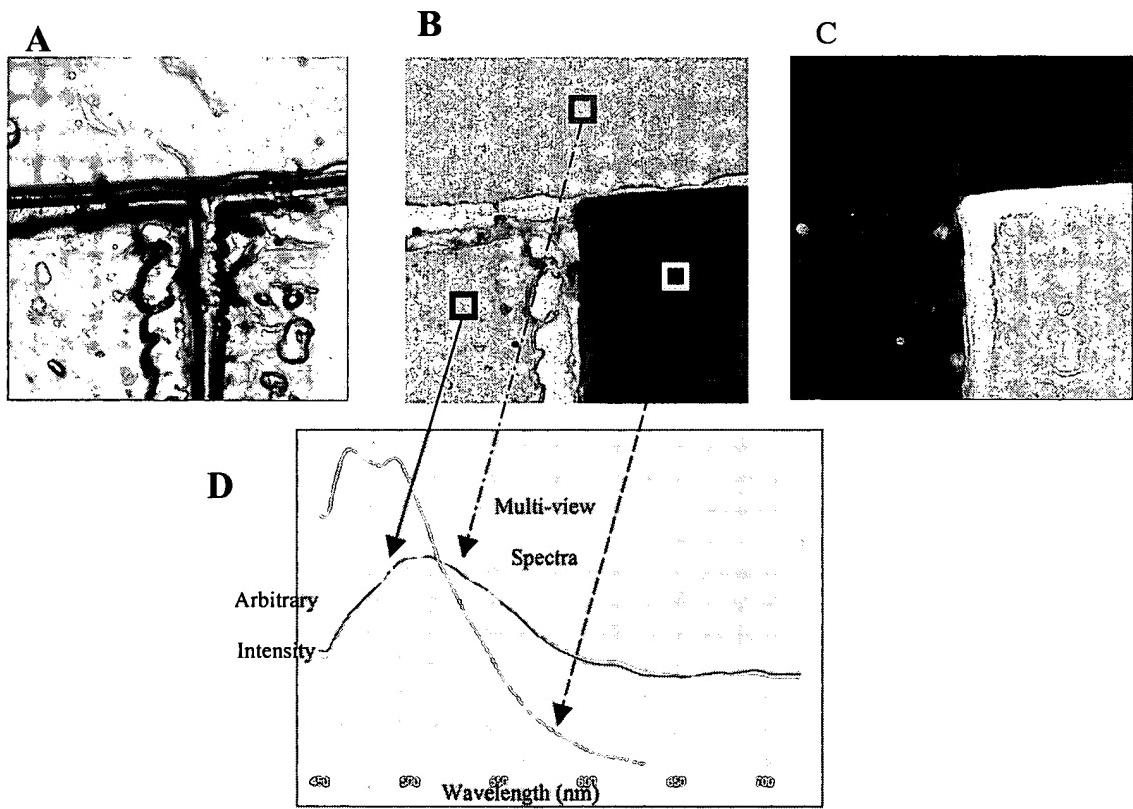


650 nm

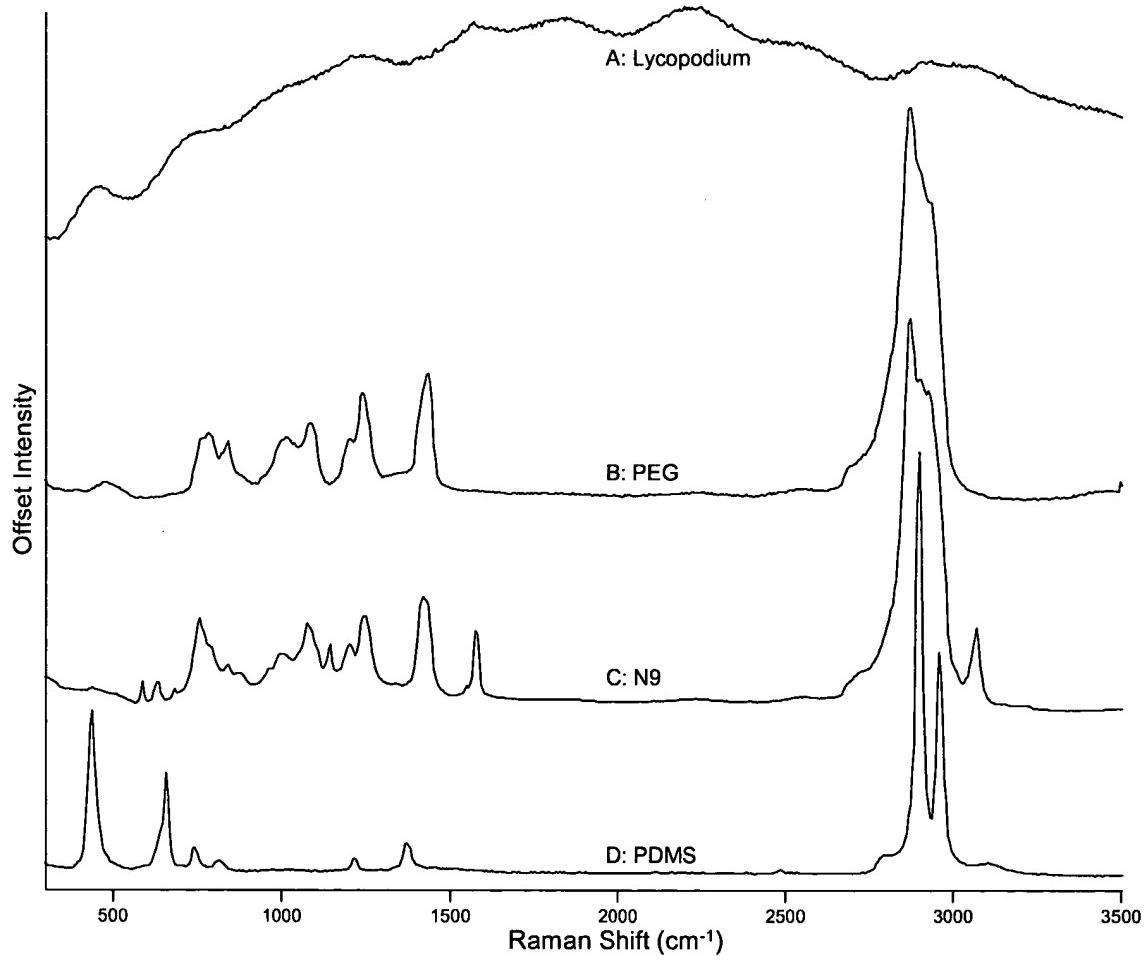
**Figure 14**



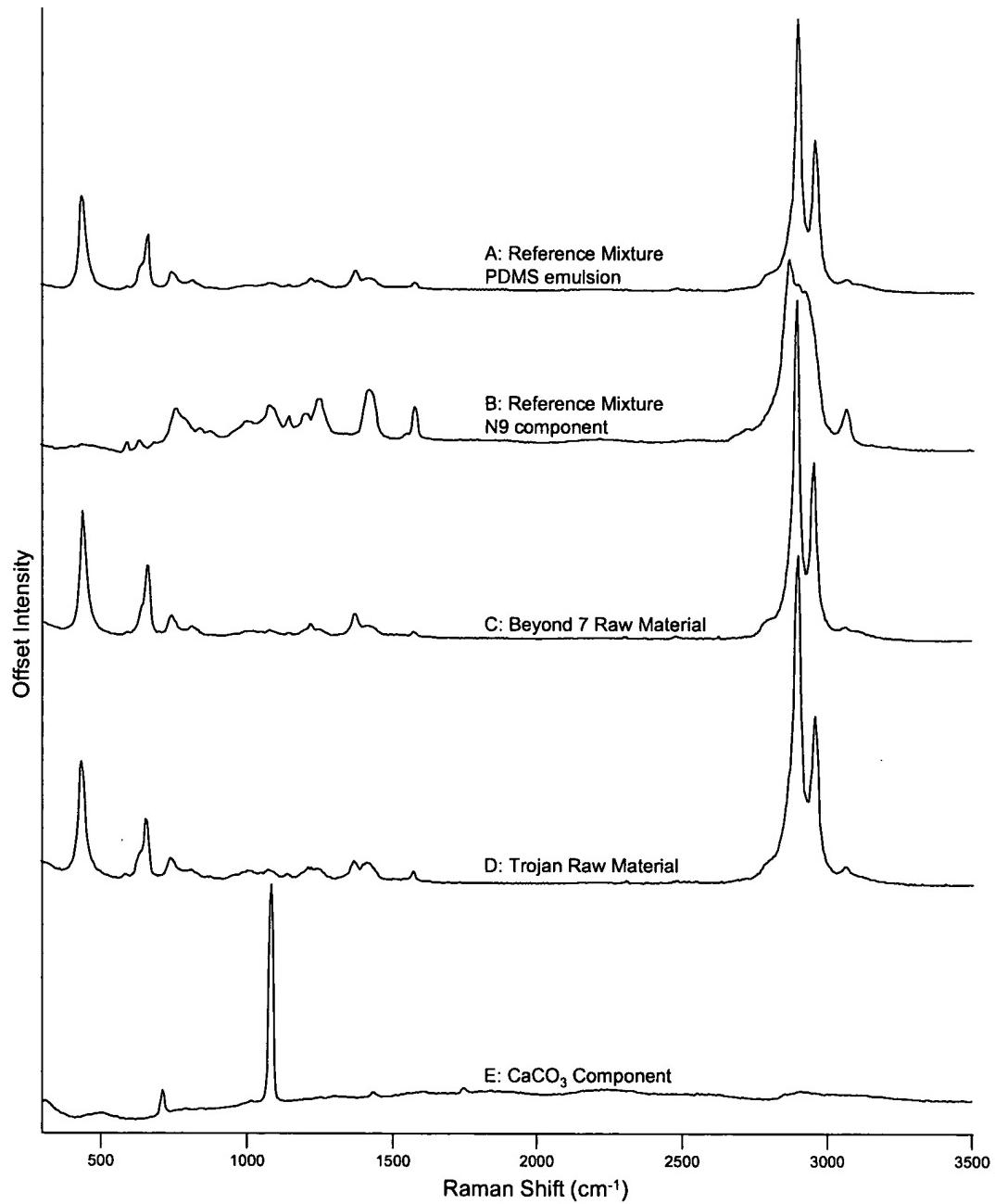
**Figure 15**



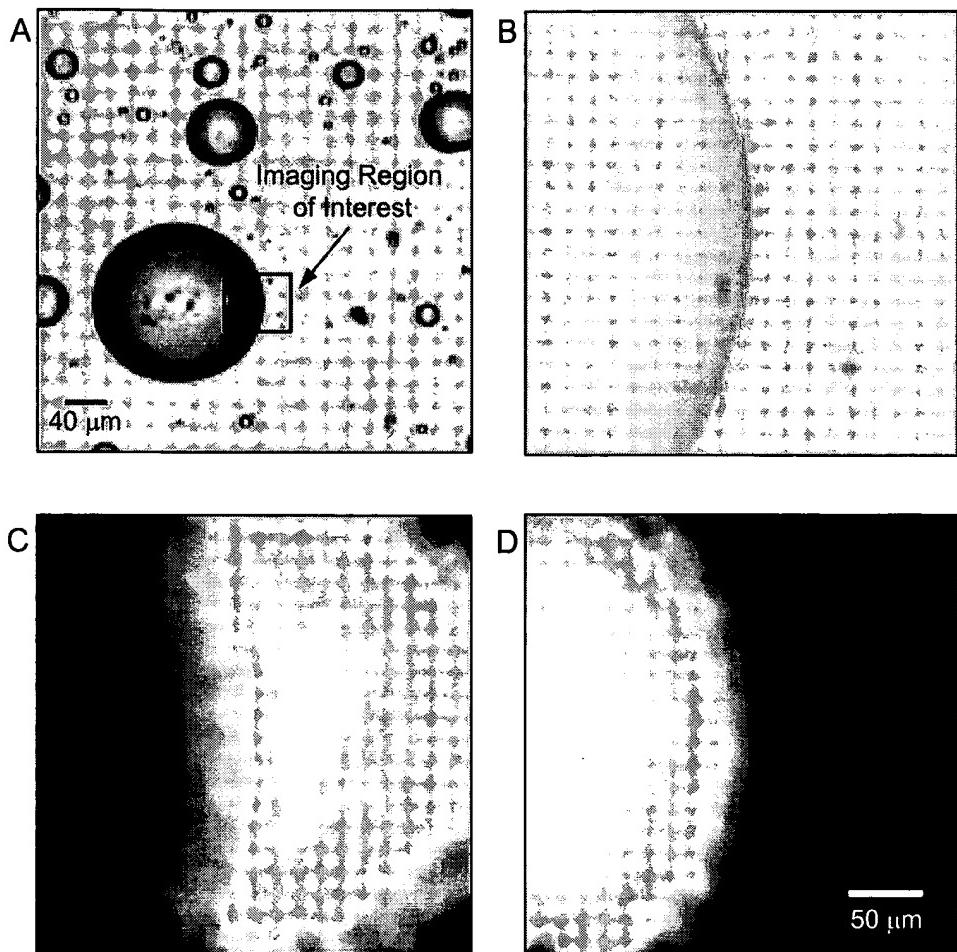
**Figure 16**



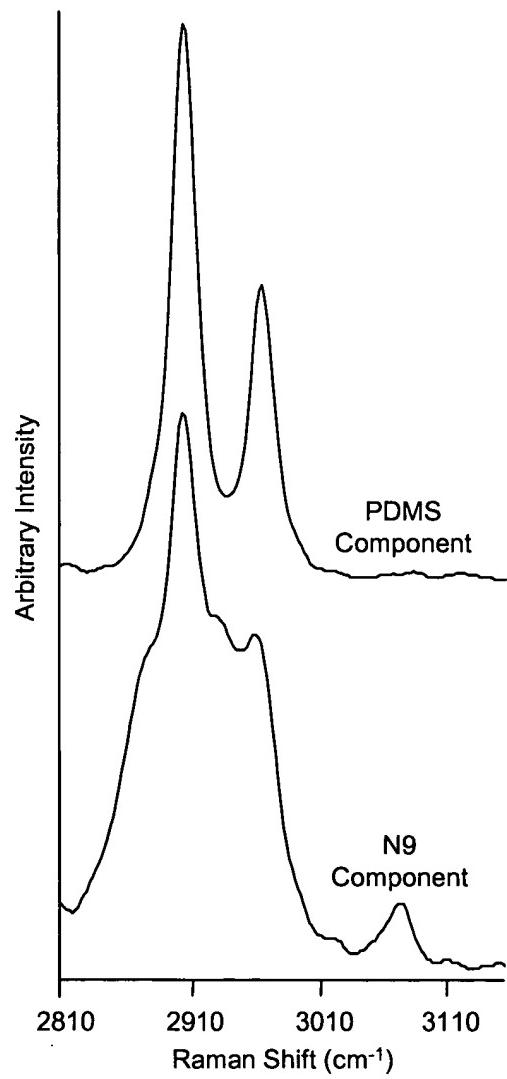
**Figure 17**



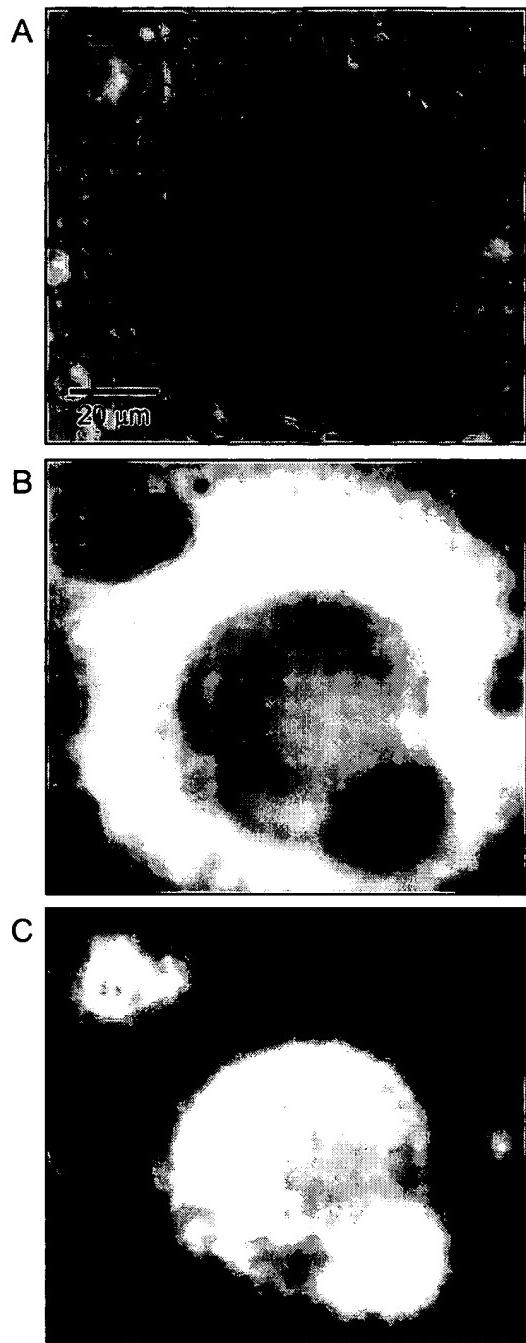
**Figure 18**



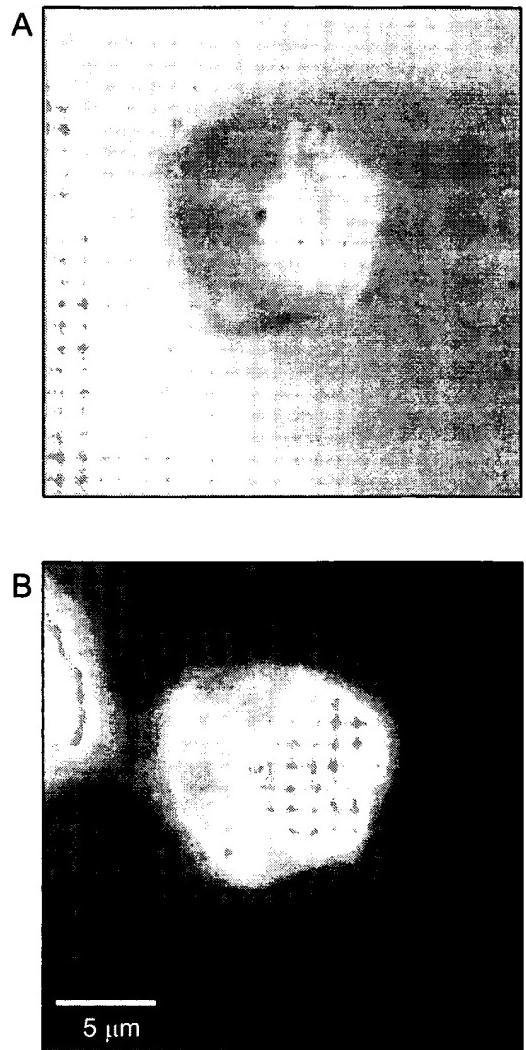
**Figure 19**



**Figure 20**



**Figure 21**



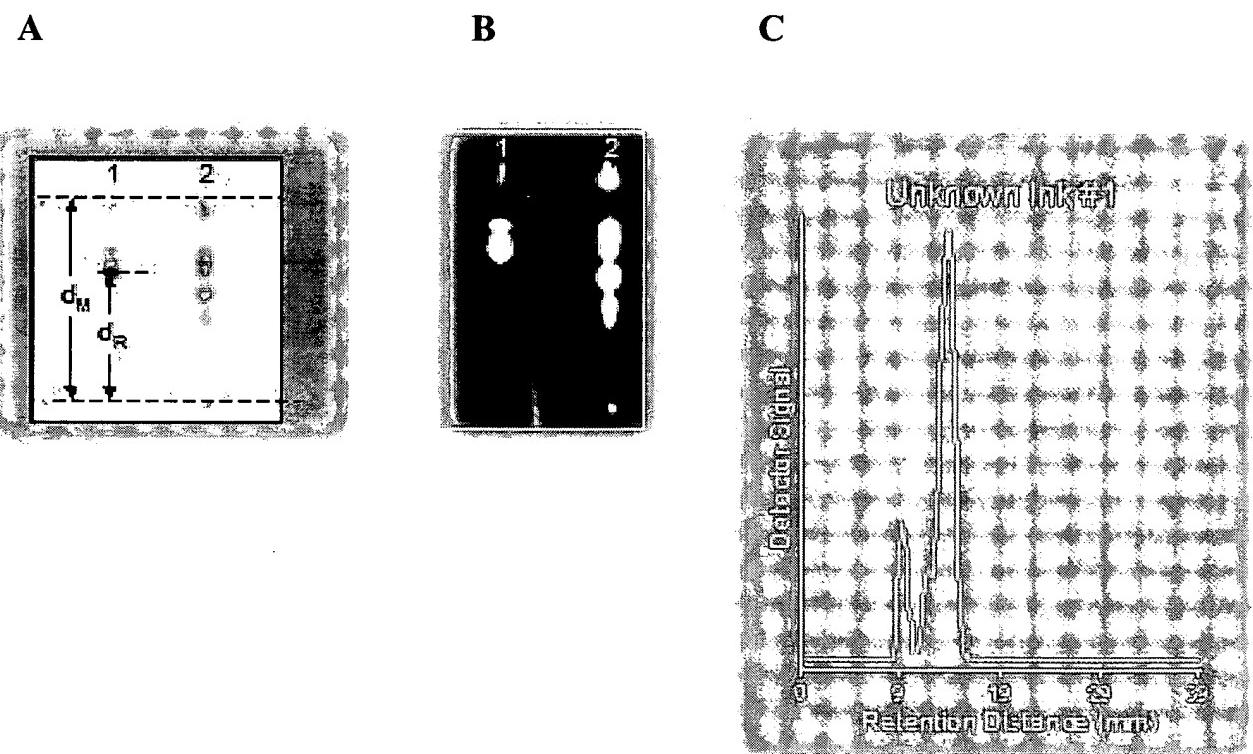
**Figure 22**

Table 1: RF values of band distances

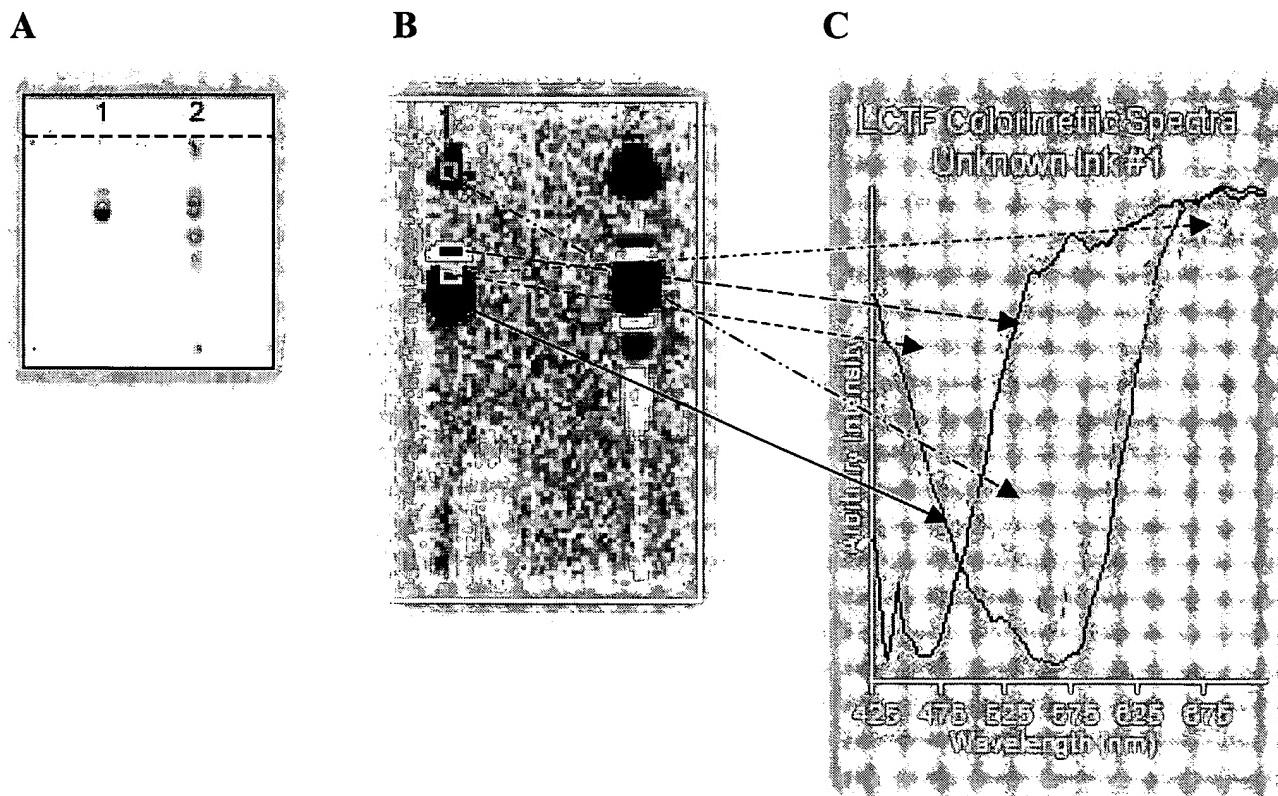
| Unknown Ink 1 |                | Known Ink 7 |                |
|---------------|----------------|-------------|----------------|
| Spot          | R <sub>F</sub> | Spot        | R <sub>F</sub> |
| 1             | 0.5381         | 1           | 0.5934         |
| 2             | 0.581          | 2           | 0.624          |
| 3             | 0.6048         | 3           | 0.6445         |
| 4             | 0.6381         | 4           | 0.6701         |
| 5             | 0.8786         | 5           | 0.8568         |

| Unknown Ink 2 |                | Known Ink 5 |                |
|---------------|----------------|-------------|----------------|
| Spot          | R <sub>F</sub> | Spot        | R <sub>F</sub> |
| 1             | 0.3119         | 1           | 0.3839         |
| 2             | 0.3786         | 2           | 0.4425         |
| 3             | 0.4214         | 3           | 0.4817         |
| 4             | 0.4786         | 4           | 0.5232         |
| 5             | 0.5476         | 5           | 0.5721         |
| 6             | 0.5952         | 6           | 0.6064         |
| 7             | 0.6429         | 7           | 0.6308         |
| 8             | 0.8405         | 8           | 0.8191         |

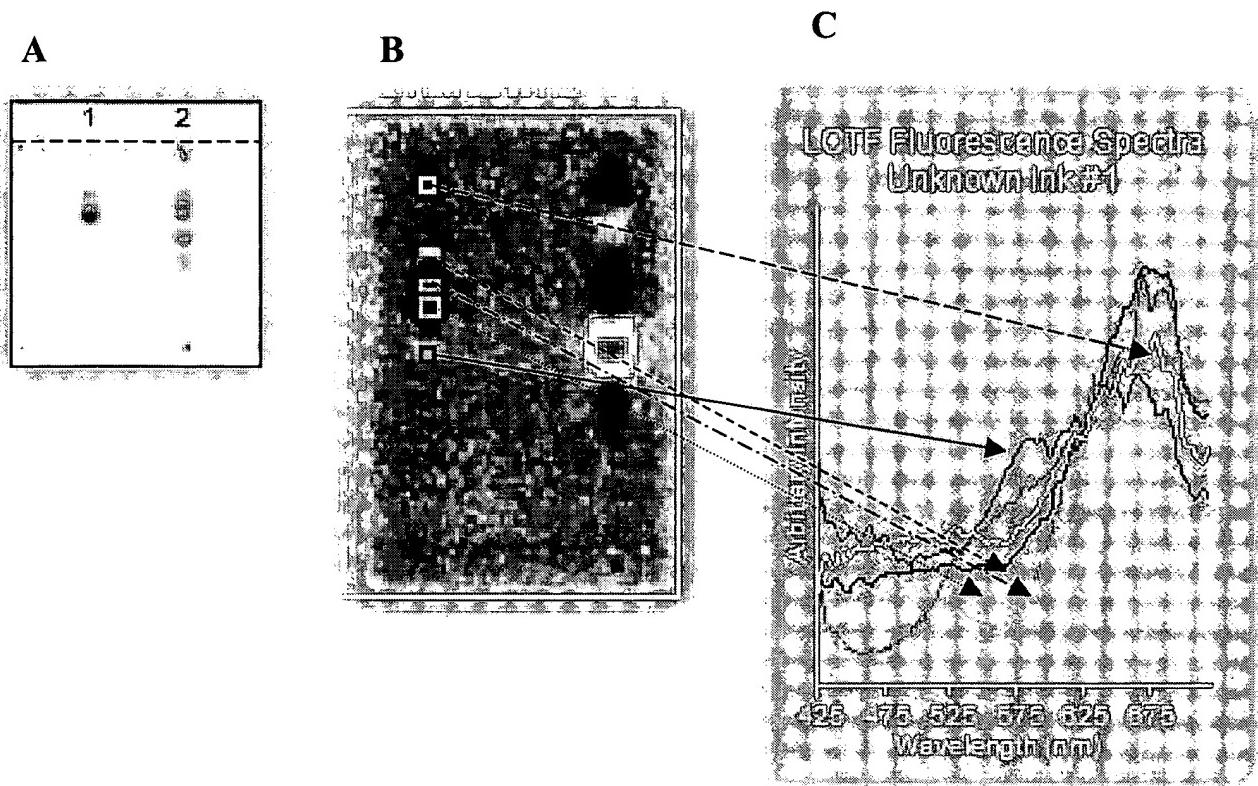
**Figure 23**



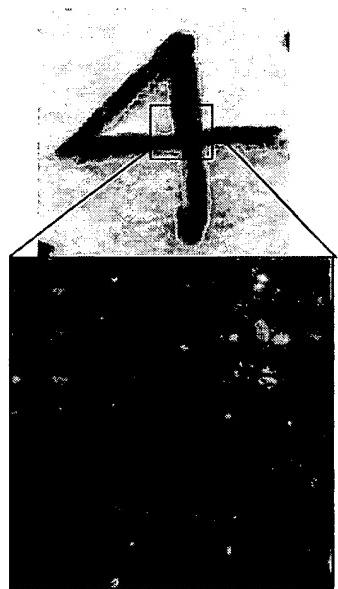
**Figure 24**



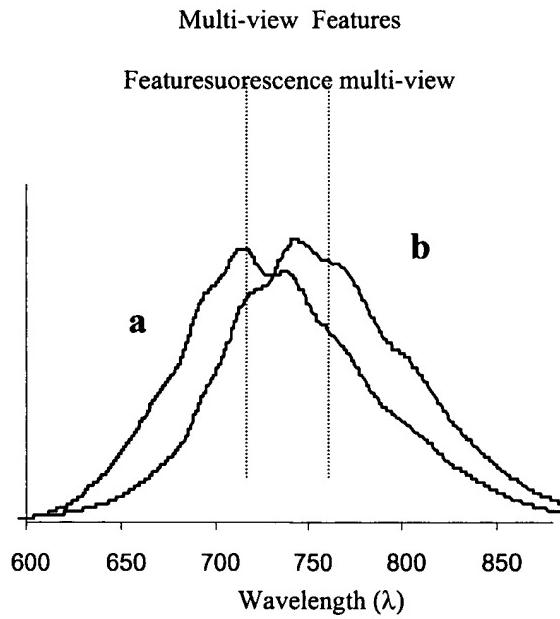
**Figure 25**



**Figure 26**

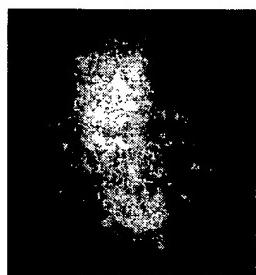


**Figure 27**

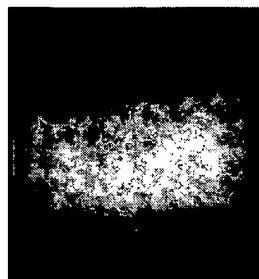


**Figure 28**

**A**



**B**

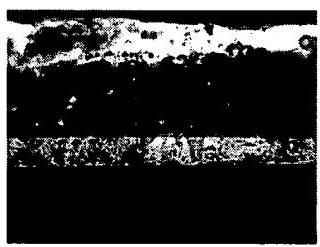


**Figure 29**

A



B



C



D



**Figure 30**